

JW6 42339 - 202640

From the INTERNATIONAL SEARCHING AUTHORITY				
To: CHINA SCIENCE PATENT&TRADEMARK AGENT LTD.	PCT			
15/F.,Bldg.B,Tsinghua Tongfang Hi-Tech Plaza, No.1,Wangzhuang Rd.,Haidian District, Beijing100083,P.R.CHINA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY,OR THE DECLARATION			
2 MONTH REMINDER 1 MONTH REMINDER 2 WEEK REMINDER 2,19105	(PCT Rule 44.1)			
ACTION DUE AND DATE 3 23/55 AVICLE 19 AMEN OVE	Date of mailing (day/month/year) 2004 (2 3 · 1 2 · 2 0 0 4)			
Applicant's or agent's file reference IP040019	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/CN2004/000290	International filing date (day/month/year) 31.MAR.2004(31.03.2004)			
Applicant INTEL CORPORATION PENG, JinZhan				
 The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the International search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.:+41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. 				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date(in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 mon months.	1ths (or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the <i>PCT Applicant's Guide</i> , Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/ 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China	Authorized officer			
Facsimile No. 86-10-62019451	Telephone No. 86-10-62084955			

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 - claims 30, 33 and 36 unchanged; -new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 - "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of FormPCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Tran	nsmittal of International Search Report
IP040019		s well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest)Priority date (day/month/year)
PCT/CN2004/000290	31.MAR.2004(31.03.2004)	
Applicant		
INTEL CORPORATION	PENG, JinZhan	
This international search report has been pre to Article 18. A copy is being transmitted to		y and is transmitted to the applicant according
This international search report consists of a	sheets.	
☐ It is also accompanied by a copy of	each prior art document cited in this report.	
1. Basis of the report		
a. With regard to the language, the interior in which it was filed, unless otherwing the international search was carrow Authority (Rule 23.1(b)). b. With regard to any nucleotide at 2. Certain claims were found unse 3. Unity of invention is lacking (see 4. With regard to the title,	ise indicated under this item. ried out on the basis of a translation of the interest and /or amino acid sequence disclosed in the earchable (see Box No. II). ree Box No. III)	
one month from the date of mailing. 6. with regard to the drawings, a. The figure of the drawings to be publicant as suggested by the applicant as selected by this Authority,	cording to Rule 38.2(b), by this Authority as it as ing of this international search report, submit consisted with the abstract is Figure No. 4 t. because the applicant failed to suggest a figure because this figure better characterizes the investment of the suggest and the suggest	omments to this Authority

INTERNATIONAL SEARCH REPORT

International application No. PCT/CN2004/000290

A. CLASSIFICATION OF SUBJECT MATTER	·				
	G06F 9/00				
According to International Patent Classification (IPC) or to both na	tional classification and IPC				
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed	by classification symbols)				
IPC ⁷ C	G06F 9/00				
Documentation searched other than minimum documentation to the	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (nam	e of data base and, where practicable, search terms used) /PI EPODOC PAJ				
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category* Citation of document, with indication, where applied to the control of					
Further documents are listed in the continuation of Box C.	See patent family annex.				
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention				
 "L" document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date 	cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
but later than the priority date claimed	"&" document member of the same patent family				
Date of the actual completion of the international search	Date of mailing of the international search report				
07.DEC.2004(07.12.2004)	23 · DEC 2004 (23 · 12 · 2004)				
Name and mailing address of the ISA/: 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451 Form PCT/ISA /210 (second sheet) (January 2004)	Authorized officer A410 Telephone No. 86-10-62084955				

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CN2004/000290

Patent Document Cited in search report	Publication date	Family members	Publication date
CN1440528A	03. SEP. 2003	GB2367658A	10.APR . 2002
1		GB2367654A	10.APR . 2002
		WO0229563A	11.APR . 2002
		JP2002116908A	19.APR . 2002
		US2002066004A	30.MAY. 2002



To: CHINA SCIENCE PATENT&TRADEMARK AGENT LTD. 15/F.,Bldg.B,Tsinghua Tongfang Hi-Tech Plaza, No.1,Wangzhuang Rd.,Haidian District, Beijing100083,P.R.CHINA			PCT
		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
		Date of mailing (day/nonth/year)	2004 (2 3 · 1 2 · 2 0 0 4)
Applicant's or agent's file reference		FOR FURTHER A	
IP040019			See paragraph 2 below
International application No.	International filing da	- L	Priority date (day/month/year)
		4(31.03.2004)	
International Patent Classification (IPC) or	~	ion and IPC G06F 9/00	
Applicant			
INTEL CORPORATION	PENG JinZhan		
This opinion contains indications relat —	_	ns:	
Box No. I Basis of the opini	on		
☐ Box No.II Priority ☐ Box No. III Non-establishme	nt of oninion with regar	d to novelty inventive	step and industrial applicability
Box No. IV Lack of unity of	-	d to noverty, inventive	step and industrial applicationity
		a)(i)with regard to nove	elty, inventive step or industrial applicability;
	anations supporting suc		
☐ Box No VI Certain document	ts cited		

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

2 MONTH REMINDER 1 MONTH REMINDER 2 WEEK REMINDER 3. For further details, see notes to Form PCT/ISA/220. 3 DAY REMINDER

Box No. VII Certain defects in the international application Box No.VIII Certain observations on the international application

> **ACTION DUE AND** SOONSC DIVION

Name and mailing address of the ISA/
6 Xitucheng Rd., Jimen Bridge, Haidian District,
100088 Beijing, China
3 0,
Facsimile No. 86-10-62019451

Authorized officer

Telephone No.







INTERNATIONAL SEARCHING AUTHORITY

B02	K No.	1	Basis of the opinion
1.			gard to the language , this opinion has been established on the basis of the international application in the language in t was filed, unless otherwise indicated under this item.
		ŧ	is opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of: international search (under the search (under the search))
2.		_	gard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
	a.	type	e of material a sequence listing table(s) related to the sequence listing
	b.	for	mat of material in written format in computer readable form
	c.	time	e of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.
3.		furn	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or ished, the required statements that the information in the subsequent or additional copies is identical to that in the lication as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	litior	nal comments:
		4	
		•	



International application No. PCT/CN2004/000290

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	Creations and explanations supporting such statement			
1.	Statement:			
	Novelty (N)	Claims		YES
		Claims	1-20	NO
	Inventive step (IS)	Claims		YES
	1	Claims	1-20	NO NO
	Industrial applicability (IA)	Claims	1-20	YES
		Claims		NO NO

- 2. Citations and explanations
 - (1) Documents incorporated by reference are the following:
 - D1:CN1440528 A
 - (2) The present invention relates to a method and system to excute an instruction on an operand stack, the method comprising:performing a stack-state-aware translation of the instruction to threaded code to determine an operand stack state for the instruction; dispatching the instruction according to the operand stack state for the instruction; and executing the instruction.a system comprising:an operand stack to execute an instruction; and an interpreter to determine a state of the operand stack, translate the instruction into threaded code, and dispatch the instruction based on the state of the operand stack.
 - (3) D1discloses a method and apparatus for storing stack operands in registers. The bank of registers (106) include a set of registers that are used for the storage of stack operands. Instructions from a second instruction set specifying stack operands are translated by an instruction translator (108) into instructions of a first instruction set (or control signals corresponding to those instructions) specifying register operands. These translated instructions are then executed by the processor core (104). The instruction translator (108) has multiple mapping states for controlling which registers corresponding to which stack operands within the stack. Changes between mapping states are carried out in dependence of stack operands being added to or removed from the set of registers.
 - (4) Claims 1-20 do not meet the criteria set out in PCT Article 33(2).Because D1 dislose the substance of the present invention, although there is a little difference between the expression of D1 and the present invention. Thus, claims 1-20 are not novelty.